

CLAIMS

1- "Niobium-based Compositions and Coatings, Niobum  
Oxides and Their Alloys Applied by Thermal Spraying"  
characterized by applying niobium, its oxides and alloys such  
5 as Ni-Nb, Fe-Nb, HNb, among others, obeying the following  
characteristics, boiling point up to a maximum of 2000° C,  
density of 4.47 to 8.0 g/cm<sup>3</sup>, niobium oxide 99.4%, sulphur  
ppm at 10, Fe ppm at 229, Pb ppm at <1 and granulometry of  
[-180 to 45 µm] by thermal spraying.

10 2- "Niobium-based Compositions and Coatings, Niobum  
Oxides and Their Alloys Applied by Thermal Spraying"  
according to claim 1, characterized by using, more  
specifically in case of an adherence pre-layer, the  
agglomerate of 40 Al - 60 Nb with niobium oxide with a  
15 granulometry between - 180 to 45 µm.

3- "Niobium-based Compositions and Coatings, Niobum  
Oxides and Their Alloys Applied by Thermal Spraying",  
according to claims 1 and 2, characterized by obeying the  
following parameters for application of the niobium oxide and  
20 niobium alloys, oxygen pressure of 2.0 to 4.0 kg/cm<sup>2</sup>,  
acetylene pressure of 0.5 to 1.0 kg/cm<sup>2</sup>, deposition rate  
regulation 5-15.

4- "Use as an anticorrosive" as described in the  
preceding claims, characterized by using niobium and niobium  
25 alloys such as Ni-Nb, Fe-Nb, HNb among others, as an  
.....anticorrosive coating.